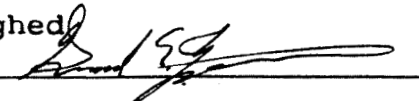
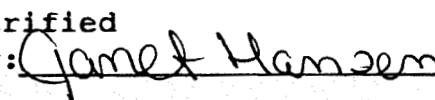




## Recyclable Material

US DOT Description	Container		Quantity	Unit	Waste No.
	No.	Type			
RQ, Hazardous waste, solid,n.o.s. (F006), 9, NA3077,III	3	CF	3882	P	F006
RQ, Hazardous waste, solid,n.o.s. (D007), 9, NA3077,III	21	DM	21980	P	D007
Total Quantity			25862		

Weighed  
By: 

Verified  
By: 

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. W. A. D. 9. 8. 0. 7. 3. 5. 5. 0. 0. 3		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address ALASKAN COPPER WORKS 3200 Sixth Avenue South Seattle WA 98134		6. US EPA ID Number		C. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (206) 623-5801		7. Transporter 1 Company Name C.K.C., Incorporated		8. US EPA ID Number		D. Transporter's Phone (408) 627-2595		E. State Transporter's ID	
5. Transporter 2 Company Name		9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043		10. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID	
				A. Z. D. 9. 8. 0. 7. 3. 5. 5. 0. 0		H. Facility's Phone (602) 233-9166			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit		15. Waste No.	
a. <input type="checkbox"/> HM		No. Type		Quantity		Wt/Vol			
b. <input type="checkbox"/> RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III		0.03 C.F.		0.3882		P		F006	
c. <input type="checkbox"/> RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077 III		0.211 D.M.		2.1980		P		D007	
d. <input type="checkbox"/>									
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above							
P.O. # 1034337									
15. Special Handling Instructions and Additional Information 24 HOUR EMERGENCY RESPONSE: 1-(800) 424-9300 CHEMTREC (USE CHEMTREC COMPANY CODE "WORR") WEAR GOGGLES AND GLOVES									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Gerald A. Thompson					Signature 			Month Day Year 	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Richard Jeff					Signature 			Month Day Year 05/10/94	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Month Day Year 	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name					Signature			Month Day Year 	

## NOTICE

**TO:** World Resource Company  
8112 West Sherman Street  
Phoenix, Arizona 85043

**From:** Alaskan Copper Works  
628 South Hanford Street  
Seattle, Washington 98134

**SUBJECT:** Land Disposal Restriction Notice

**Manifest Number:** 94003

**Date of Shipment:** 5-10-94

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
D007	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By:   
Gerald A. Thompson  
Alaskan Copper Environmental Assistant

## NOTICE

**TO:** World Resource Company  
8112 West Sherman Street  
Phoenix, Arizona 85043

**From:** Alaskan Copper Works  
628 South Hanford Street  
Seattle, Washington 98134

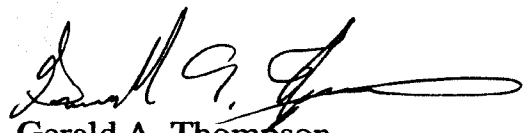
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EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
F006	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By:   
Gerald A. Thompson  
Alaskan Copper Environmental Assistant

## MATERIAL IDENTIFICATION

**DOT SHIPPING NAME:** Hazardous Waste Solid N.O.S. (D007)  
**DOT HAZARD CLASS:** Class 9  
**UN OR NA NUMBER:** NA 3077

1990  
EMERGENCY  
RESPONSE  
GUIDE

# DOT EMERGENCY RESPONSE GUIDE 31

## POTENTIAL HAZARDS

### **FIRE OR EXPLOSION**

Some of these material may burn, but none of them ignites readily.

### **HEALTH HAZARDS**

Contact may cause burns to skin and eyes.

Fire may produce irritating or poisonous gases.

Runoff from fire control or dilution water may cause pollution.

## EMERGENCY ACTION

Keep unnecessary people away.

Isolate hazard area and deny entry.

Self-contained breathing apparatus (SCBA) and structural firefighters, s protective clothing will provide limited protection.

**CALL CHEMTREC AT 1-800-424-9300 FOR EMERGENCY ASSISTANCE.**(Use Chemtrec Company Code "WORR") If water pollution occurs, notify the appropriate authorities.

### **FIRE**

**Small Fires:** Dry chemical, CO2, Halon, water spray or standard foam.

**Large fires:** Water spray, fog or standard foam is recommended.

Move container from fire area if you can do it without risk.

**Do not scatter spilled material** with high-pressure water streams.

Dike fire control water for later disposal.

### **SPILL OR LEAK**

Stop leak if you can do it without risk.

**Small Dry Spills:** With clean shovel place material into clean, dry container and cover, move containers from spill area.

**Small spill:** Take up with sand or other noncombustible absorbent material and place into containers for disposal.

**Large Spills:** Dike far ahead of liquid spill for later disposal.

Cover powder spill with plastic sheet or tarp to minimizing spreading.

### **FIRST AID**

In case of contact with material, immediately flush eyes with running water for at least 15 minutes.

Wash skin with soap and water.

Remove and isolate contaminated clothing and shoes at the site.

**NOTE:** If this response guide is used as an attachment for shipping documents, enter shipping manifest number in block below.

WAD98073854694003

(Shipping Manifest Number)

## MATERIAL IDENTIFICATION

**DOT SHIPPING NAME:** Hazardous Waste Solid N.O.S. (F006)  
**DOT HAZARD CLASS:** Class 9  
**UN OR NA NUMBER:** NA 3077

1990  
EMERGENCY  
RESPONSE  
GUIDE

# DOT EMERGENCY RESPONSE GUIDE 31

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WAD98073854694003

(Shipping Manifest Number)

# Material Safety Data Sheet

D007 Recyclable Material

Recycler's Facility Name and Site Address:

Issued: 3/18/94

**World Resources Company**  
8113 West Sherman Street  
Phoenix, Arizona 85043  
Tel: 1-602-233-9166 Fax: 602-936-9164

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire, or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,  
Call: CHEMTREC 800-424-9300  
(Use CHEMTREC Company Code "WRR")  
For calls from other countries call:  
202-483-7616 Collect

## Section 1

## PRODUCT - MATERIAL IDENTIFICATION

**Environmental Protection Agency (EPA) Waste Classification:** D007  
**Generic Name:** Chromium metal bearing sludge  
**Chemical Family:** Non-Ferrous metal particulates  
**Synonym:** Metallic Residues From High Frequency Burning Table

**DOT Shipping Name:** RQ, Hazardous Waste, Solid, n.o.s. (D007)  
**DOT Hazard Class:** 9; **Packing Group:** III  
**DOT Identification Number:** NA 3077  
**DOT Emergency Response Guide:** 31 Applies

## Section 2

## HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology:
Aluminum	7429-90-5	0-5	10 mg/m <sup>3</sup>	No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m <sup>3</sup>	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m <sup>3</sup>	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	0-10	1.0 mg/m <sup>3</sup>	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

## Section 3

## PHYSICAL AND REACTIVITY DATA

**Description:** Moist, Sandy consistency  
Brown to Black colored  
Water Content 10-20% by weight

**Density:** 100 to 150 lbs/cu/ft  
**Incompatible Reactivity:** Extreme heat sources,  
Oxidants

**Polymerization:** Will not occur  
**Boiling Point:** Above 2000°C  
**Melting Point:** Above 1000°C

**Specific Gravity:** 2.0 to 3.0

**Vapor Pressure:** Insignificant

**pH:** 7.0 to 10.0

**Solubility:** Insoluble in water

**Stability:** Avoid contact with acids, extreme heat

**Odor:** Nil

## Section 4

## FIRE AND EXPLOSION DATA

**Flashpoint:** Nonflammable, under normal conditions

**Oxidation:** Non-oxidizing

**Special Firefighting Procedures:** Dry Chemical

**Explosive:** Non-explosive

**Product Decomposition:** ... (Due to Fire or Explosion): Hydrogen gas, ZnO (under extreme external heat)

**NFPA**  
**Fire Diamond**



## Section 5

## TOXICITY

**Listed Carcinogen component:** Chromium, Nickel **Toxicology:** See Sec. 2 (Chromium, Nickel) **Route of Entry:** Inhalation and Ingestion

## Section 6

## HEALTH EFFECTS AND FIRST AID

**Inhalation:** Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

**Ingestion:** Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

**Eyes:** Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

**Skin:** Dust may irritate skin, causing forms of eczema. Wash with soap and water.

**Long-Term Effects:** Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

**Comments:** Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

## Section 7

## PRECAUTIONS FOR SAFE HANDLING

**Handling:** Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

**Storage:** Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

**Spills:** Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

## Section 8

## CONTROL MEASURES

**Respiratory Protection:** NIOSH-MSHA approved respirators as required.

**Eye Protection:** Safety Glasses recommended.

**Other Protective Equipment:** Coveralls are recommended, but not required.

**Hand Protection:** Gloves recommended.

## Section 9

## GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 94003 Telephone: (206) 823-5800 Date: 5-10-94

Company Name and Address: Alaskan Copper Works 628 Hanford st. Seattle Wa 98134

Signature: [Signature]

AZF-WRC 3/94

AKC-0018304

# Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

**World Resources Company**  
8113 West Sherman Street  
Phoenix, Arizona 85043  
Tele: 1-602-233-9166 Fax: 602-936-9164

Issued: 8/7/90  
Revised: 9/15/93 - DLS

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire, or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,  
Call: CHEMTREC 800-424-9300  
(Use Chemtrec Company Code "WRRR")  
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202-483-7616 Collect

## Section 1

**Generic Name:** Electroplating/Metal-Finishing Wastewater Treatment Sludge  
**Environmental Protection Agency (EPA) Waste Classification:** F006  
**Chemical Family:** Metallic (Hydroxide) Precipitates  
**Synonym:** Non-ferrous Metal Hydroxide Filter Cake

## PRODUCT - MATERIAL IDENTIFICATION

**DOT Shipping Name:** RQ, Hazardous waste, solid, n.o.s., (F006)  
**DOT Hazard Class:** 9 Packaging Group III  
**DOT Identification Number:** NA 3077  
**DOT Emergency Response Guide 31 Applies**

## Section 2

Ingredient:	CAS Number:
Copper Hydroxide	20427-59-2
Nickel Hydroxide	12054-48-7
Calcium Hydroxide	1305-62-0
Diatomaceous Earth	68855-54-9

**Content %:**

0-30  
0-15  
0-15  
0-10

**ACGIH-TLV**

1.0 mg/m<sup>3</sup> (Dust)  
1.0 mg/m<sup>3</sup> (Dust)  
5.0 mg/m<sup>3</sup> (Dust)  
6.0 mg/m<sup>3</sup> (Dust)

**Toxicology: (rat, oral)**

LD-50 1,000 mg/kg  
LD-50 1,500 mg/kg  
LD-50 7,340 mg/kg  
LD-50 3,160 mg/kg

## Section 3

**Description:** Solid, Clay-like Clumps,  
Gray/Green to Brown,  
Water Content 30-80%

**Specific Gravity:** 1 to 1.4

**Solubility:** Insoluble in water

**Density:** 64 to 90 lbs/cu/ft

**Incompatible Reactivity:** None Known

**Vapor Pressure:** Insignificant

**Stability:** Avoid contact with acids

**Polymerization:** Will not occur

**Boiling Point:** Above 2600°C

**Melting Point:** Above 1800°C

**pH:** 7.0 to 10.0

**Odor:** Nil

## Section 4

**Flashpoint:** Nonflammable

**Special Firefighting Procedures:** None

**Product Decomposition:** . . . . . (Due to Fire or Explosion): None

**Oxidation:** Non-oxidizing

**Explosive:** Non-explosive

NFPA  
Fire Diamond



## Section 5

**Listed Carcinogen component:** Nickel

**Toxicology:** See Sec. 2 (Nickel Hydroxide)

**Route of Entry:** Inhalation and Ingestion

## TOXICITY

## Section 6

## HEALTH EFFECTS AND FIRST AID

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**Ingestion:** Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

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Company Name and Address: Alaskan Copper Works 628 sixth ave. south  
Seattle WA 98134

Signature:

AZF-WRC 9/93

AKC-0018305